

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 012003-03

Paper No. 2

In re Application of:
Ernest L. Baker et al.

PATENT

METHOD TO IMPROVE PERFORATING
EFFECTIVENESS USING A UNIQUE MULTIPLE
POINT INITIATED SHAPED CHARGE PERFORATOR

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97 AND 1.98

It is respectfully requested that the Examiner consider the following eleven disclosures, copies of which are enclosed, in relation to his or her examination of the above-identified patent application.

1. U.S. Patent No. 6,393,991 B1, "K-Charge--A Multipurpose Shaped Charge Warhead," Funston et al., May 28, 2002.

2. U.S. Patent No. 6,378,438 B1, "Shape Charge Assembly System," Lussier et al., April 30, 2002.

3. U.S. Patent 6,283,214 B1, "Optimum Perforation Design and Technique to Minimize Sand Intrusion," Guinot et al., September 4, 2001.

4. U.S. Patent 5,564,499, "Method and Device for Slotting Well Casing and Scoring Surrounding Rock to Facilitate Hydraulic Fractures," Willis et al., October 15, 1996.

5. U.S. Patent No. 5,479,860, "Shaped-Charge With Simultaneous Multi-Point Initiation of Explosives," Ellis, January 2, 1996.

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6. U.S. Patent No. 4,860,655, "Implosion Shaped Charge Perforator," Chawla, August 29, 1989.

7. U.S. Patent No. 4,829,901, "Shaped Charge Having Multi-Point Initiation for Well Perforating Guns and Method," Yates, Jr., May 16, 1989.

8. U.S. Patent 4,711,181, "Warhead With Rotationally-Symmetrical Hollow Charge," Ringel et al., December 8, 1987.

9. U.S. Patent 3,443,518, "Multi-Point Ignition System for Shaped Charges," Cross, September 26, 1967.

10. E.L. Baker, A.S. Daniels, J.P. Turci, T.H. Vuong, E. Homentowski, and C.L. Chin, "Selectable Initiation Shaped Charges," 20th International Symposium on Ballistics, September 23-27, 2002, pp. 589-596.

11. B. Bourne, J.P. Curtis, K.G. Cowan, D. Finch, and R. Barlow-Kay, "Variable Multiple Point Initiated Chemical Energy Warheads," 18th International Symposium on Ballistics, November 15-19, 1999, pp. 426-433.

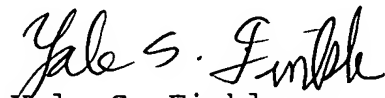
A concise explanation of the relevance of the above-identified disclosures has not been included in this disclosure statement since 37 CFR 1.98, as revised and made effective on March 16, 1992, no longer requires such an explanation for disclosures in the English language.

The above-identified disclosures, which are not admitted prior art, are listed on the enclosed Form 1449. The Examiner is respectfully requested to consider these disclosures, place his or her initials in the appropriate location on Form 1449 indicating that the Examiner has done so, and return a copy of the form with the Examiner's next

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communication in accordance with the procedure set forth in
Section 609 of the Manual of Patent Examining Procedure.

Respectfully submitted,

A handwritten signature in cursive script that reads "Yale S. Finkle".

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October 14, 2003

Union Oil Company of California
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET
NO. 012003-03SERIAL NO.
UnknownAPPLICANT
Ernest L. Baker et al.FILING DATE
UnknownGROUP
Unknown

U. S. PATENT DOCUMENTS

*Exam Initial		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE ^e
	AA	6	3	9	3	9	9	1	05/28/2002	Funston et al.	102	476	
	AB	6	3	7	8	4	3	4	04/30/2002	Lussier et al.	102	307	
	AE	6	2	4	3	2	1	4	09/04/2001	Guinot et al.	166	297	
	AD	5	5	4	4	4	9	9	10/15/1996	Willis et al.	166	299	
	AE	5	4	7	9	4	6	9	01/02/1996	Ellis	102	313	
	AE	4	8	6	0	6	5	5	09/29/1989	Chawla	102	306	
	AG	4	8	2	9	9	0	1	05/16/1989	Yates, Jr.	102	306	
	AH	4	7	1	1	1	8	1	12/08/1987	Ringel et al.	102	476	
	AI	3	4	4	3	5	1	8	09/26/1967	Cross	102	24	
	AJ												
	AK												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							PUBLICA- TION DATE	COUNTRY	CLASS	SUB CLASS	TRANS.	
													YES	NO
	AL													
	AM													
	AN													
	AO													
	AP													

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	AR	E.L. Baker, A.S. Daniels, J.P. Turci, T.H. Vuong, E. Homentowski, and C.L. Chin, "Selectable Initiation Shaped Charges," 20 th International Symposium on Ballistics, September 23-27, 2002, pp. 589-596.
	AS	B. Bourne, J.P. Curtis, K.G. Cowan, D. Finch, and R. Barlow-Kay, "Variable Multiple Point Initiated Chemical Energy Warheads," 18 th International Symposium on Ballistics, November 15-19, 1999, pp. 426-433.
	AT	

Examiner:

Date Considered

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.